

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

# **NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY, FLORIDA PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Korus USA, Inc. 8615 NW 64<sup>th</sup> Street, Bay No. 01 Miami, FL 33166

## Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### **DESCRIPTION:**

Series "Firenze - Venezia - Roma" Wood Clad (Interior) Aluminum Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. W07-69, titled "Firenze – Venezia – Roma Alum. Fixed Wdw. (L.M.I.)", sheets 01 through 06 of 06, dated 09/13/07, with revision "E" dated 10/01/13, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

# MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, **Latina**, **Italy**, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 12-0224.03 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.



Jan Jan

NOA No. 13-0820.17 Expiration Date: January 10, 2017 Approval Date: January 30, 2014 Page 1

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. W07–69, titled "Firenze Venezia Roma Alum. Fixed Wdw. (L.M.I.)", sheets 01 through 06 of 06, dated 09/13/07, with revision "E" dated 10/01/13, prepared by Al–Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

### B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of aluminum fixed windows rectangular, round top and eyebrow top, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-7101, dated 04/01/13, signed and sealed by Marlin D. Brinson, P. E.

- 2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201–94
  - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked—up drawings and installation diagram of aluminum fixed windows rectangular, round top and eyebrow top, **specimen no. 9**, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0458-0605-07**, dated 06/04/08, signed and sealed by Vinu J. Abraham, P. E.

(Submitted under previous NOA No. 09-0128.12)

- 3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201–94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

along with marked—up drawings and installation diagram of aluminum fixed windows rectangular, round top and eyebrow top, specimens no.'s 5, 8, 10, 11 & 12, prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s HTL—0458—0108—07 and HTL—0458—0605—07, dated 3/8/07 to 6/19/07, signed and sealed by Vinu J. Abraham, P. E.

(Submitted under previous NOA No. 09-0128.12)

Jaime D. Gascon, P. E.

**Product Control Section Supervisor** 

NOA No. 13-0820.17

Expiration Date: January 10, 2017 Approval Date: January 30, 2014

# Korus USA, Inc.

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

# C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 05/22/13, prepared by Al-Farooq Corporation, dated 01/14/14, signed and sealed by Javad Ahmad, P. E.
- 2. Glazing complies with ASTM E1300-04

# D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

### E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 13–0129.27 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite® PVB Interlayer" dated 04/11/13, expiring on 12/11/16.
- 2. Notice of Acceptance No. 11-0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont SentryGlas® Interlayer" dated 08/25/11, expiring on 01/14/17.
- 3. Notice of Acceptance No. 12–1231.08 issued to Eastman Chemical Company (MA) for their "Saflex CP Saflex and Saflex HP Composite Glass Interlayers with PET Core" dated 03/28/13, expiring on 12/11/18.

### F. STATEMENTS

- 1. Statement letter of no financial interest, conformance and complying with FBC-2010, issued by Al-Farooq Corporation, dated 05/22/13, signed and sealed by Javad Ahmad, P. E.
- 2. Laboratory compliance letter for Test Report No. FTL-7101, dated 04/01/13, issued by Fenestration Testing Laboratory, Inc., signed and sealed by Marlin D. Brinson, P. E.
- 3. Proposal No. 12–3694 issued by Product Control, dated 02/02/12, signed by Jaime D. Gascon, P. E.
- 4. Distributor Agreement between manufacturer: Korus, Spa, Italy and distributor: Korus, USA, Inc., signed by Guiseppe AndiNacci and Gianfranco Ippoliti on behalf of respective companies.

(Submitted under previous NOA No. 12-0224.03)

5. Laboratory compliance letter for Test Reports No.'s HTL-0458-0605-07, dated 06/04/08, HTL-0458-0108-07, dated 03/08/07 and HTL-0458-0605-07, dated 06/19/07, issued by Hurricane Test Laboratory, LLC, signed and sealed by Vinu J. Abraham, P. E.

(Submitted under previous NOA No. 09-0128.12)

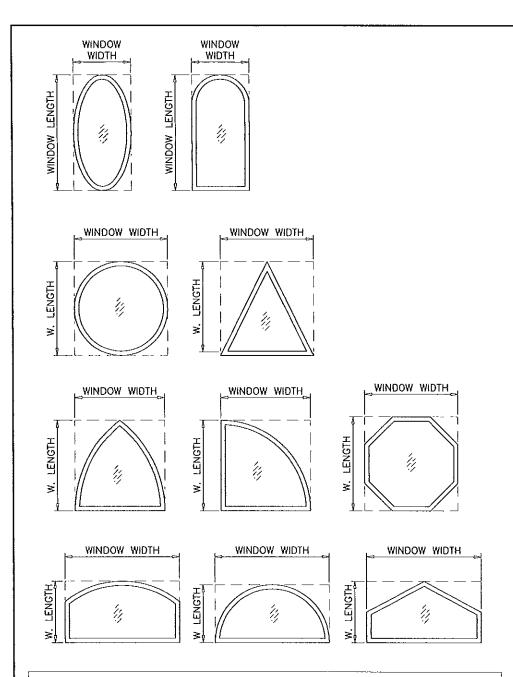
### G. OTHERS

1. Notice of Acceptance No. 12-0224.03, issued to Korus USA, Inc. for their Series "Firenze – Venezia – Roma Aluminum Fixed Window – L.M.I.", approved on 05/03/12 and expiring on 01/10/17.

Jaime D. Gascon, P. E.

Product Control Section Supervisor NOA No. 13-0820.17

Expiration Date: January 10, 2017 Approval Date: January 30, 2014



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

# SERIES FIRENZE-VENEZIA-ROMA ALUMINUM FIXED WINDOW WITH OPTIONAL WOOD CLAD INTERIOR

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIXED/FIXED OR FIXED WITH OTHER MIAMI-DADE COUNTY APPR'D WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

FALSE MUNTINS

(c)

(SURFACE APPLIED)
MAY BE USED

HEIGHT

132" WINDOW OPNG.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

4 3/4" MAX.

HEAD/SILL

CORNERS

66"

WINDOW OPNG. WIDTH

61 7/16"

D.L. OPG.

= = = :

HEAD/SILL

\_ \_ \_ -| -- -- --

(B

(A)

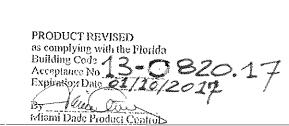
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

CMU = NORMAL WEIGHT - HOLLOW LOAD BEARING CONCRETE MASONRY UNITS WITH COMPRESSIVE STRENGTH OF MIN. 1900 PSI.



66"

WINDOW OPNG. WIDTH

61 7/16"

D.L. OPG.

( A )

(B

HEAD/SILL

132" WINDOW OPNG.

127 D.L.

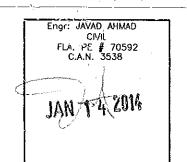
4 3/4" MAX.

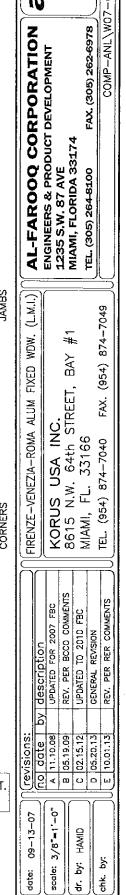
HEAD/SILL

CORNERS

TYPICAL ELEVATIONS
TESTED UNITS

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT SHUTTERS ARE NOT REQUIRED.





drawing

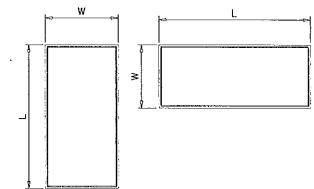
W07 - 69

sheet 1 of 6

no.

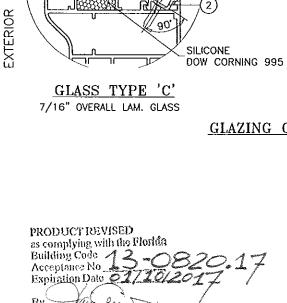
		CI Yee			- PSF	CI 100	түрг
WDW. OPNG. DIMS.		GLASS TYPE		GLASS TYPE 'B'		GLASS TYPE 'C' & 'D'	
WIDTH	LENGTH	EXT.(+)	(-).דאו	EXT.(+)		EXT.(+)	INT.(-)
30"		75.0	75.0	60,0	60.0	80.0	80.0
36"		75.0	75.0	60.0	60.0	80.0	80.0
42"		75.0	75.0	60.0	60.0	80.0	80.0
45~5/8*	60"	75.0	75.0	60.0	60.0	80.0	80.0
48*		71.3	71.3	60.0	60.0	80.0	80.0
54"		63.4	63.4	53.3	53.3	80.0	80.0
60°		57.0	57.0	48.0	48.0	80.0	80.0
66"		57.0	57.0	48.0	48.0	80.0	80.0
30°		75.0 75.0	75.0 75.0	60.0	60.0	80.0	80.0
36" 42"		75.0	75.0	60.0	60.0	80.0 80.0	80.0
45-5/8"	72*	75.0	75.0	60.0	60.0	80.0	80.0
48"	12	71.3	71.3	60.0	60.0	80.0	80.0
54 <b>"</b>		63.4	63.4	53.3	53.3	80.0	80.0
60"		-	-	48.0	48.0	80.0	80.0
66"				43.6	43.6	80.0	80.0
30*		75.0	75.0	60.0	60.0	80.0	80.0
36°		75.0	75.0	60.0	60.0	80.0	80.0
42"		75.0	75.0	60.0	60.0	80.0	80.0
45-5/8°	84"	75.0	75.0	60.0	60.0	80.0	80.0
48"		71.3	71.3	60.0	60.0	80.0	80.0
54"		_	···-	53.3	53.3	80.0	80.0
60"	ļ	_	_	48.0	48.0	80.0	80.0
66"		_		43.6	43.6	80.0	80.0
30 <b>"</b>		75.0	75.0	60.0	60.0	80.0	80.0
36"		75.0	75.0	60.0	60.0	80.0	80.0
42*		75.0	75.0	60.0	60.0	80.0	80.0
45-5/8"	93-5/8"	75.0	75.0	60.0	60.0	80.0	80.0
48°		-	_	60.0	60.0	80.0	80.0
54		_ `	-	53.3	53.3	80.0	80.0
60°				48.0	48.0	80.0	80.0
66"		-		-	_	80.0	80.0
30*		75.0	75.0	60.0	60.0	80.0	80.0
36*		75.0	75.0	60.0	60.0	80.0	80.0
42*		75.0	75.0	60.0	60.0	80.0	80.0
45-5/8"	96"	-	-	60.0	60.0	80.0	80.0
48"				60.0	60.0	80.0	80.0
54"		-	-	53.3	53.3	80.0	80.0
60"				48.0	48.0	80.0	80.0
66"			-	<del> </del>	_	80.0	80.0
30"		75.0	75.0	60.0	60.0	80.0	80.0
36°		75.0	75.0	60.0	60.0	80.0	80.0
42*	455	<u> </u>	-	60.0	60.0	80.0	80.0
45-5/8*	108*			57.6	57.6	80.0	80.0
48"		ļ	<del>-</del>	54.8	54.8	80.0	80.0
54"		<u> </u>	1	<del>  -</del>	_	80.0	80.0
60°			+	<del>                                     </del>		80.0	80.0
66"		75.0	75.0		60.0	80.0	80.0
30 <b>"</b>	}	75.0	75.0	60.0	60.0	80.0	80.0
36 <b>"</b>		<del>-</del>	<del>                                     </del>	60.0	60.0	80.0	80.0
42" 45-5/8"	120*	<del>-</del>	<del>                                     </del>	58.8	58.8	80.0	80.0
43-3/6	120	_	-	52.6	52.6	80.0	80.0
48 54*		<u> </u>	<del>-</del>	49.6	49.6	80.0	80.0
54 60**		}	_	<del>-</del>	<del>  -</del>		80.0
66*	1	H_	+ -	<del>  -</del>	<del>  -</del>	80.0	<del> </del>
30"	1	75.0	75.0	60.0	60.0	77.1 80.0	77.1
36"		- 73.0	/5.0			80.0	80.0
36 42"		<del>-</del>	<del>  -</del>	60.0 58.1	60.0 58.1	80.0	80.0
45-5/8"	132"	<del>-</del>	+	- 30.1	- 30.1	80.0	80.0
48"	192	<u> </u>	1 _	<u> </u>	<del>-</del>	80.0	80.0
54 <b>"</b>			<del>                                     </del>		_	80.0	80.0
60°		t _	_	1 -	_	73.2	73.2
	1		1		1	13.2	13.2

	DI	ESIGN L	OAD CA	PACITY	- PSF		
WDW. OPNG. DIMS.		GLASS TYPE		GLASS TYPE 'B'		GLASS TYPE 'C' & 'D'	
WIDTH	LENGTH	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-
25-1/2"		75.0	75.0	60.0	60.0	0.08	80.0
31"		75.0	75.0	60.0	60.0	80.0	80.0
36"	05*	75.0	75.0	60.0	60.0	80.0	80.0
43"	25	75.0	75.0	60.0	60.0	80.0	80.0
47 <sup>*</sup>		75.0	75.0	60.0	60.0	80.0	80.0
52-1/8"		75.0	75.0	60.0	60.0	80.0	80.0
25-1/2"		75.0	75.0	60.0	60.0	80.0	80.0
317	37-3/8"	75.0	75.0	60.0	60.0	80.0	80.0
36 <b>°</b>		75.0	75.0	60.0	60.0	80.0	80.0
43*		75.0	75.0	60.0	60.0	80.0	80.0
47"		75.0	75.0	60.0	60.0	80.0	80.0
52-1/8"		75.0	75.0	60.0	60.0	80.0	80.0
25-1/2"	49-5/8"	75.0	75.0	60.0	60.0	80.0	80.0
31*		75.0	75.0	60.0	60.0	80.0	80.0
36"		75.0	75.0	60.0	60.0	80.0	80.0
43"		75.0	75.0	60.0	60.0	80.0	80.0
47"		72.8	72.8	60.0	60.0	80.0	80.0
52-1/8"		69.0	69.0	58.0	58.0	80.0	80.0
25-1/2"		75.0	75.0	60.0	60.0	80.0	80.0
31"		75.0	75.0	60.0	60.0	80.0	80.0
36"	55*	75.0	75.0	60.0	60.0	80.0	80.0
43"		75.0	75.0	60.0	60.0	80.0	80.0
47*		72.8	72.8	60.0	60.0	80.0	80.0
52-1/8*		65.6	65.6	55.3	55.3	80.0	80.0
25-1/2"		75.0	75.0	60.0	60.0	80.0	80.0
31*		75.0	75.0	60.0	60.0	80.0	80.0
36"	62"	75.0	75.0	60.0	60.0	80.0	80.0
43"		75.0	75.0	60.0	60.0	80.0	80.6
47"		72.8	72.8	60.0	60.0	80.0	80.0
52-1/8"		65.6	65.6	55.3	55.3	80.0	80.0
25-1/2"		75.0	75.0	60.0	60.0	80.0	80.0
31"	1	75.0	75.0	60.0	60.0	80.0	80.0
36*	75,"	75.0	75.0	60.0	60.0	80.0	80.0
43*		75.0	75.0	60.0	60.0	80.0	80.6
47*		72.8	72.8	60.0	60.0	80.0	80.0
52-1/8*		65.6	65.6	55.3	55.3	80.0	80.0



WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).



Miemi Dade Product Control

---1/4" HEAT STREN'D GLASS

13/16" MIN. TYP. GLASS BITE

EXTERIOR

13/16" I GLASS

-SAFLEX CP

GLASS TYPE 'A'

9/16" OVERALL LAM. GLASS

-3/16" HEAT STREN'D GLASS

-SENTRYGLAS BY 'DUPONT'

.090" INTERLAYER

.075" INTERLAYER

BY 'EASTMAN CHEMICAL CO.'

─1/4" ANN. GLASS

DOW CORNING 995

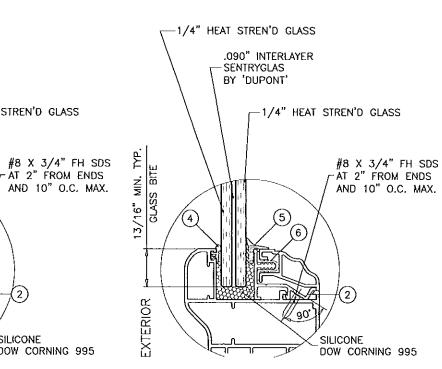
AND 10" O.C. MAX.

-3/16" HEAT STREN'D GLASS



-3/16" ANN. GLASS .090" INTERLAYER BUTACITE PVB BY 'DUPONT' —3/16" ANN. GLASS #8 X 3/4" FH SDS AT 2" FROM ENDS #8 X 3/4" FH SDS AT 2" FROM ENDS AND 10" O.C. MAX. AND 10" O.C. MAX. EXTERIOR SILICONE DOW CORNING 995

GLASS TYPE 'B' 7/16" OVERALL LAM. GLASS



GLASS TYPE 'D' 9/16" OVERALL LAM. GLASS

**GLAZING OPTIONS** 

Engr: JAYAO AH!AAD

TOO TOO <u>ج</u> drawing no.

**AL-FAROOQ CORPORATION**ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 262-6978

874-7049

(954)

BAY

FIRENZE-VENEZIA-ROMA ALUM FIXEI

KORUS USA INC.

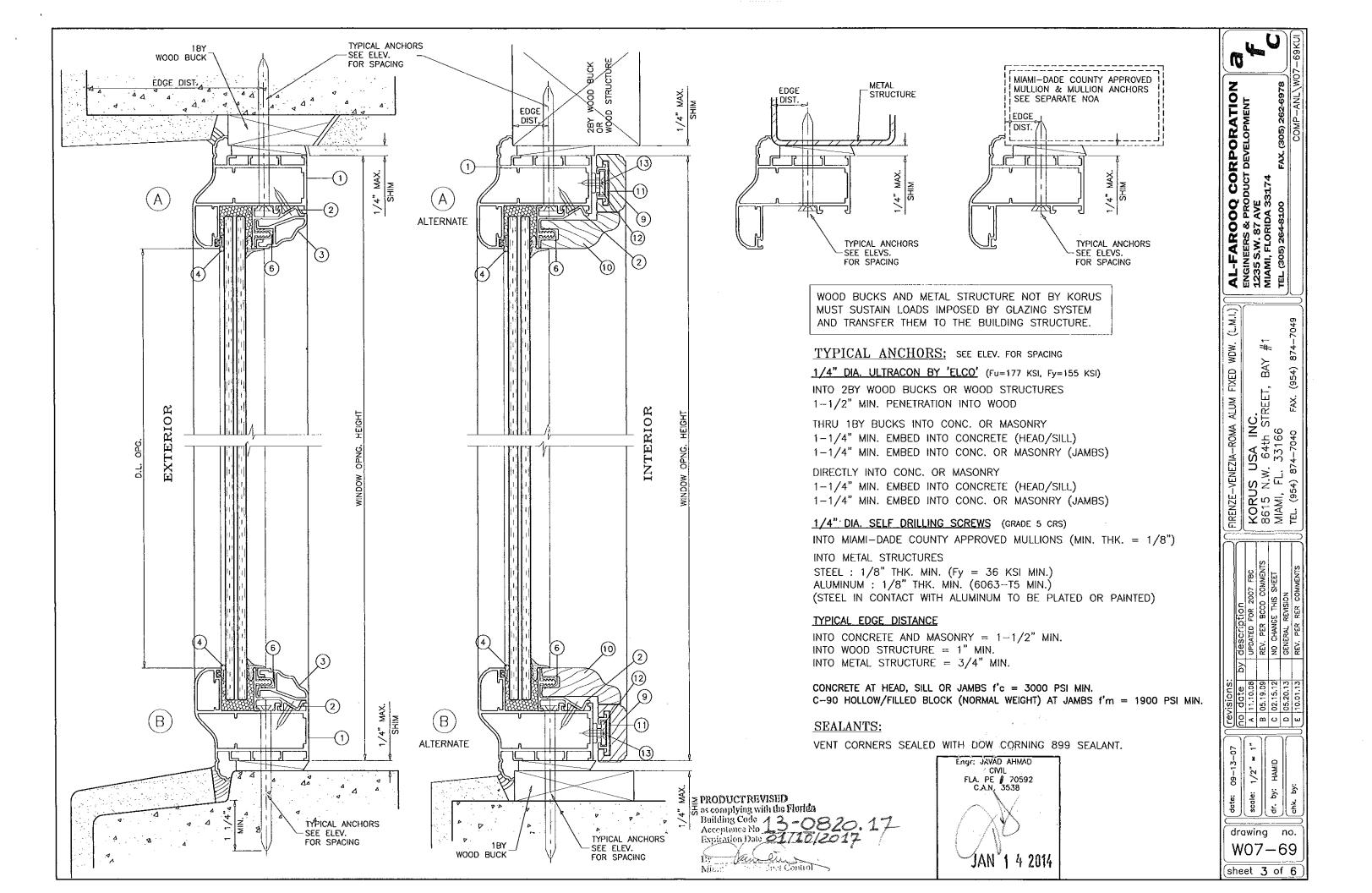
8615 N.W. 64th STREET, E

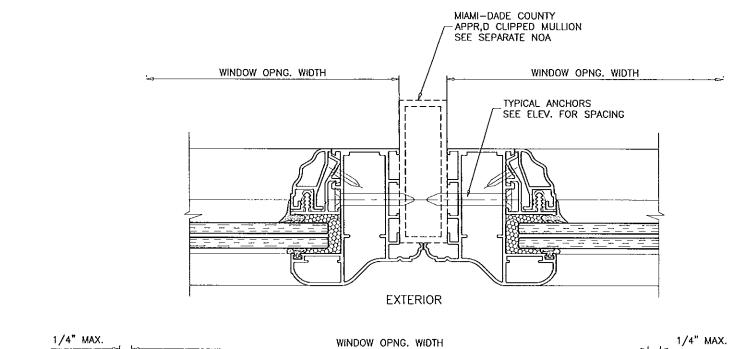
MIAMI, FL. 33166

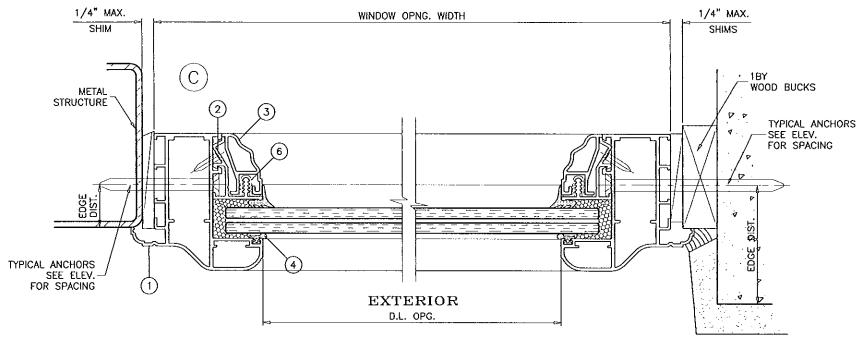
TEL. (954) 874-7040 FAX. (95-

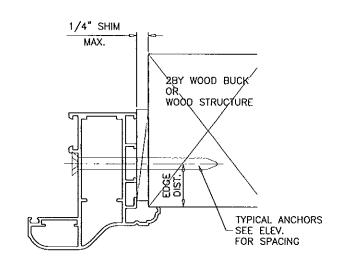
W07 - 69

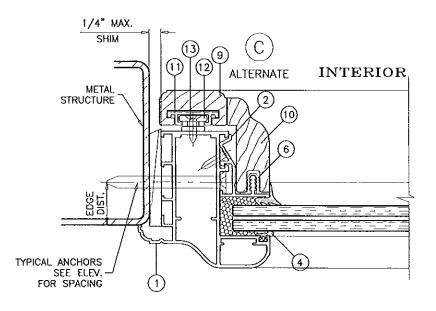
sheet 2 of 6











PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13 08
Emphasion Date

V frace Succession Dade Frontiel

Engr: JAVAD AHMAD FLA: PE # 70592 C.A.N. 3538 JAN 1 4 2014

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174
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=	pr. ex	
(L.M.I.)		7049
WDW.	# \	R74-
FIXED	, B	FAX (954) 874-7049
ALUM	TREE	ΧVu
FIRENZE-VENEZIA-ROMA ALUM FIXED WDW. (L.M.I.)	KORUS USA INC. 8615 N.W. 64th STREET, BAY #1 MIAMI, FL. 33166	TEI (954) 8747040
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	by   description	UPDATED FOR 2007 FBC	REV. PER BCCO COMMENTS	NO CHANGE THIS SHEET	GENERAL REVISION	NO CHANGE THIS SHEET
revisions:	no date	A 11.10.08	B 05,19,09	C 02.15.12	0 05.20.13	E 10.01.13
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date: 09-13-07	- []	scale: 1/2" = 1"		dr. by: HAMID		chk. by:

drawing no. W07-69

sheet 4 of 6

